RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	_/0/0 <i>13,/38/</i> 4
Source:	, /FW/6
Date Processed by STIC:	8/31/05
•	——————————————————————————————————————

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 08/31/2005
PATENT APPLICATION: US/10/073,138A TIME: 16:57:51

Input Set : A:\US10073138.txt

```
3 <110> APPLICANT: ANDERSON, DARRELL R.
         HANNA, NABIL
 5
         BRAMS, PETER
         HEARD, CHERYL
 8 <120> TITLE OF INVENTION: INDENTIFICATION OF UNIQUE BINDING INTERACTIONS BETWEEN
 9
        CERTAIN ANTIBODIES AND THE HUMAN B7.1 AND B7.2
         CO-STIMULATORY ANTIGENS
10
12 <130> FILE REFERENCE: 37003-280705
14 <140> CURRENT APPLICATION NUMBER: 10/073138A
15 <141> CURRENT FILING DATE: 2002-02-13
17 <150> PRIOR APPLICATION NUMBER: PCT/US97/19906
18 <151> PRIOR FILING DATE: 1997-10-29
20 <150> PRIOR APPLICATION NUMBER: 08/746,361
21 <151> PRIOR FILING DATE: 1996-11-08
23 <150> PRIOR APPLICATION NUMBER: 08/487,550
24 <151> PRIOR FILING DATE: 1995-06-07
26 <160> NUMBER OF SEQ ID NOS: 6
28 <170> SOFTWARE: PatentIn Ver. 2.1
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 705
32 <212> TYPE: DNA
33 <213> ORGANISM: Homo sapiens
35 <220> FEATURE:
36 <221> NAME/KEY: CDS
37 <222> LOCATION: (1)..(702)
39 <400> SEQUENCE: 1
40 atg agg gtc ccc gct cag ctc ctg ggg ctc ctg ctg ctc tgg ctc cca
41 Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Trp Leu Pro
42
                     5
   1
                                        10
44 ggt gca cga tgt gcc tat gaa ctg act cag cca ccc tcg gtg tca gtg
                                                                      96
45 Gly Ala Arg Cys Ala Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val
                                    25
48 tcc cca gga cag acg gcc agg atc acc tgt ggg gga gac aac agt aga
49 Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys Gly Gly Asp Asn Ser Arg
                                40
52 aat gaa tat gtc cac tgg tac cag cag aag cca gcg cgg gcc cct ata
                                                                      192
53 Asn Glu Tyr Val His Trp Tyr Gln Gln Lys Pro Ala Arg Ala Pro Ile
        50
                            55
56 ctg gtc atc tat gat gat agt gac cgg ccc tca ggg atc cct gag cga
57 Leu Val Ile Tyr Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg
60 ttc tct ggc tcc aaa tca ggg aac acc gcc acc ctg acc atc aac ggg
                                                                      288
61 Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Thr Leu Thr Ile Asn Gly
```

Input Set : A:\US10073138.txt

62 05 00	
62 85 90 95 64 gtc gag gcc ggg gat gag gct gac tat tac tgt cag gtg tgg gac agg	336
65 Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Arg	330
66 100 105 110	
68 gct agt gat cat ccg gtc ttc gga gga ggg acc cgg gtg acc gtc cta	384
69 Ala Ser Asp His Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu	
70 115 120 125	
72 ggt cag ccc aag gct gcc ccc tcg gtc act ctg ttc ccg ccc tcc tct	432
73 Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser	
74 130 135 140	
76 gag gag ctt caa gcc aac aag gcc aca ctg gtg tgt ctc ata agt gac	480
77 Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp	
78 145 150 155 160	500
80 ttc tac ccg gga gcc gtg aca gtg gcc tgg aag gca gat agc agc ccc	528
81 Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro	
82 165 170 175	57 <i>6</i>
84 gtc aag gcg gga gtg gag acc acc aca ccc tcc aaa caa agc aac asc 85 Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn	576
86 180 185 190	
88 aag tac gcg gcc agc agc tac ctg agc ctg acg cct gag cag tgg aag	624
89 Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys	V - 1
90 195 200 205	
92 tcc cac aga agc tac agc tgc cag gtc acg cat gaa ggg agc acc gtg	672
93 Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val	
94 210 215 220	
96 gag aag aca gtg gcc cct aca gaa tgt tca tga	705
97 Glu Lys Thr Val Ala Pro Thr Glu Cys Ser	
98 225 230	
101 <210> SEQ ID NO: 2 102 <211> LENGTH: 1431	
102 <211	
104 <213> ORGANISM: Homo sapiens	
106 <220> FEATURE:	
107 <221> NAME/KEY: CDS	
108 <222> LOCATION: (1)(1428)	
110 <400> SEQUENCE: 2	
111 atg aaa cac ctg tgg ttc ttc ctc ctc ctg gtg gca gct ccc aga tgg	48
112 Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp	
113 1 5 10 15	
115 gtc ctg tcc cag gtg aag ctg cag cag tgg ggc gaa gga ctt ctg cag	96
116 Val Leu Ser Gln Val Lys Leu Gln Gln Trp Gly Glu Gly Leu Leu Gln	
117 20 25 30	1 4 4
119 cct tcg gag acc ctg tcc cgc acc tgc gtt gtc tct ggt ggc tcc atc	144
120 Pro Ser Glu Thr Leu Ser Arg Thr Cys Val Val Ser Gly Gly Ser Ile 121 35 40 45	
123 ago ggt tac tac tag acc tgg atc cgc cag acc cca ggg agg gga	192
123 age ggt tae tae tae tgg ace tgg ate ege cag ace eea ggg agg gga 124 Ser Gly Tyr Tyr Tyr Trp Thr Trp Ile Arg Gln Thr Pro Gly Arg Gly	114
125 50 55 60	
127 ctg gag tgg att ggc cat att tat ggt aat ggt gcg acc acc aac tac	240

Input Set : A:\US10073138.txt

		Glu	Trp	Ile	Gly	His	Ile	Tyr	Gly	Asn	_	Ala	Thr	Thr	Asn	-	
129	65					70					75					80	
						agt											288
	Asn	Pro	Ser	Leu	_	Ser	Arg	Val	Thr		Ser	Lys	Asp	Thr		Lys	
133					85					90					95		
						aac											336
	Asn	GIn	Phe		Leu	Asn	Leu	Asn		Val	Thr	Asp	Ala	_	Thr	Ala	
137				100					105					110			204
						aga											384
	vaı	ı yı	-	Cys	Ата	Arg	СТУ		Arg	Pro	Asp	Cys		Thr	тте	Cys	
141	+-+	~~~	115	+~~	~+~	~~+	~+ ~	120	~~~	~~~		~~~	125				422
						gat											432
145	туг	130	СТУ	пр	vaı	Asp	135	пр	СТУ	PIO	сту	140	ьeu	νат	III	Val	
	tcc		act	300	300	aag		003	too	at a	++0		a+ a	~~~	000	taa	480
						Lys											400
	145	JCI	ALG	Ser	1111	150	оту	110	Ser	vai	155	110	пец	nia	LLO	160	
		aaα	age	acc	tct	ggg	aac	aca	aca	acc		aac	tac	cta	atc		528
						Gly											320
153		-1-			165	U-1	<u></u>			170		011	0,0		175	2,0	
	gac	tac	ttc	ccc		ccg	ata	acσ	ata		taa	aac	tca	aac		cta	576
						Pro											
157	-			180					185		-			190			
159	acc	agc	ggc	gtg	cac	acc	ttc	ccg	gct	gtc	cta	cag	tcc	tca	gga	ctc	624
						Thr											
161			195					200					205				
						gtg											672
	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	
165		210					215					220					
					_	aac				-		_			_		720
		Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys		Ser	Asn	Thr	Lys		
	225					230					235					240	7.00
						CCC											768
173	Asp	ьуѕ	гÀг	Ата	245	Pro	ьys	ser	Cys	-	гуѕ	Thr	HIS	Thr	255	Pro	
	000	+ ~ ~	000	~~~		<i>~</i> ~ ~ ~	at a	at a	~~~	250	~~~	+ 00	~+ ~	++ 0		++0	016
						gaa Glu											816
177	rio	Суз	LIO	260	FIU	GIU	пец	ьeu	265	дту	PIO	ser	Val	270	ьец	FIIE	
	CCC	cca	aaa		aan	gac	acc	ctc		atc	tcc	caa	300		aaa	atc	864
						Asp											004
181			275		כעב	1101		280	1100	110	O.C.L	1119	285	110	Olu	V41	
	aca	tac		ata	ata	gac	ata		cac	gaa	gac	act		atic	aaσ	ttc	912
						Asp											
185		290				1	295					300			-1-		
	aac		tac	ata	qac	ggc	ata	gag	ata	cat	aat		aaq	aca	aaq	cca	960
						Gly											-
189		-	-		-	310					315		-		-	320	
191	cgg	gag	gag	cag	tac	aac	agc	acg	tac	cgt	gtg	gtc	agc	gtc	ctc	acc	1008
192	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	

Input Set : A:\US10073138.txt

																	•
193					325					330					335		
195	gtc	ctg	cac	cag	gac	tgg	ctg	aat	ggc	aag	gag	tac	aag	tgc	aag	gtc	1056
		Leu															
197				340	_	_			345	_		_	_	350	_		
199	tcc	aac	aaa	qcc	ctc	cca	qcc	ccc	atc	gag	aaa	acc	atc	tcc	aaa	acc	1104
		Asn															
201			355					360			1		365		-1-	-	
203	aaa	ggg	cag	ccc	cαa	αаа	сса	caq	at.a	ťac	acc	cta		cca	tcc	caa	1152
		Gly															
205	-1-	370			9	010	375	· · · ·		-1-		380		110	001	9	
	αat	gag	cta	acc	aaα	aac		atc	age	cta	acc		cta	atc	aaa	aac	1200
		Glu															1200
	385	014	шец		טעם	390	0111	vul	DCI	пси	395	Cys	пса	VUL	цуз	400	
		tat	CCC	anc	aac		acc	ata	aza	taa			22t	aaa	cad		1248
		Tyr															1240
213	1110	ı yı	110	DCL	405	110	пια	Vai	Gru	410	GIU	261	Non	СТУ	415	110	
	gag	aac	220	tac		200	aca	cct	ccc		cta	asc.	tcc	a a c		tcc	1296
		Asn			_		_				_	_		_			1290
217	GIU	ASII	ASII	420	пур	1111	1111	FIO	425	vaı	neu	ASP	ser	430	СТУ	ser	
	++~	++~	ata		200	224	a+ a			~~~	~	. ~ ~	~~~			~~~	1344
		ttc Phe															1244
221	rne	rne	435	тут	ser	гу	ьеи	440	vai	ASP	гуѕ	ser	_	пр	GTII	GIII	•
							.						445				1200
		aac															1392
	GTA	Asn	vaı	Pne	ser	Cys		val	Met	HIS	GIU		ьeu	HIS	Asn	HIS	
225		450					455	_ 4			4.	460					1 4 0 1
		acg											tga				1431
	_	Thr	GIN	ьуs	Ser		Ser	ьeu	Ser	Pro	_	гàг					
229), OF			_	470					475						
)> SE															
		l> LE			20												
		2> TY			••												
		3> OF			HOM	o sar	oiens	3									
)> FE			ana												
		L> NA				/ 🗇 🤈	7.										
		?> L()> SE			(1)(717)												
					3	~~~	~+ ~	a+ a	~~~	~+~			~+~				4.0
		agc															48
		Ser	ьeu	Pro			ьеи	Leu	GIA		Leu	ьeu	ьeu	Cys		Pro	
244	1				5					10					15		0.6
		tcc															96
	GTÀ	Ser	Ser	_	GLu	val	vaı	Met		GIn	Ser	Pro	Leu		Leu	Pro	
248				20					25					30			
		aca															144
	Ile	Thr		Gly	Glu	Pro	Ala		Ile	Ser	Cys	Arg		Ser	Gln	Ser	
252			35					40					45				
		aaa															192
	Leu	Lys	His	Ser	Asn	Gly	_	Thr	Phe	Leu	Ser	_	Tyr	Gln	Gln	Lys	
256		50					55					60					
258	cca	ggc	caa	cct	cca	agg	ctc	ctg	att	tat	aag	gtt	tct	aac	cgg	gac	240

Input Set : A:\US10073138.txt

	Pro	Gly	Gln	Pro	Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Val	Ser	Asn	Arg	Asp	
260	65					70					75					80	
	tct																288
	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ala	Gly	Thr	Asp	Phe	
264					85					90					95		
	aca																336
267	Thr	Leu	Lys	Ile	Ser	Ala	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Phe	
268				100					105					110			
270	tgc	ggg	caa	ggt	aca	agg	act	cct	CCC	act	ttc	ggc	gga	ggg	acc	aag	384
271	Cys	Gly	Gln	Gly	Thr	Arg	Thr	Pro	Pro	Thr	Phe	Gly	Gly	Gly	Thr	Lys	
272			115					120					125				
274	gtg	gaa	atc	aaa	cgt	acg	gtg	gct	gca	cca	tct	gtc	ttc	atc	ttc	ccg	432
275	Val	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	
276		130					135					140					
278	cca	tct	gat	gag	cag	ttg	aaa	tct	gga	act	gcc	tct	gtt	gtg	tgc	ctg	480
	Pro																
280	145					150					155				_	160	
282	ctg	aat	aac	ttc	tat	ccc	aga	gag	gcc	aaa	gta	cag	tgg	aag	gtg	gat	528
283	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Āsp	
284					165					170			-	_	175	_	
286	aac	gcc	ctc	caa	tcg	ggt	aac	tcc	cag	gag	agt	gtc	aca	gag	cag	gac	576
287	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	
288				180		_			185					190		_	
290	agc	aag	gac	agc	acc	tac	agc	ctc	agc	agc	acc	ctq	acq	ctq	agc	aaa	624
	Ser																
292		_	195			_		200					205			-	
294	gca	gac	tac	gag	aaa	cac	aaa	gtc	tac	gcc	tgc	gaa	gtc	acc	cat	cag	672
	Ala																
296		210					215		_		-	220					
298	ggc	ctg	agc	tcg	ccc	gtc	aca	aag	agc	ttc	aac	agg	gga	gag	tgt	tga	720
	Gly																
300	225					230					235	_	_		_		
303	<210)> SE	EQ II	ON C	4											•	
	<211				137												
305	<212	?> T	YPE:	DNA													
306	<213	3> OF	RGANI	[SM:	Homo	sap	piens	3									
308	<220)> FE	EATUE	RE:													
309	<223	L> NA	AME/F	KEY:	CDS												
310	<222	2> L(CAT]	ON:	(1)	(14	134)										
312	<400)> SE	EQUEN	NCE:	4												
313	atg	ggt	tgg	agc	ctc	atc	ttg	ctc	ttc	ctt	gtc	gct	gtt	gct	acg	cgt	48
314	Met	Gly	Trp	Ser	Leu	Ile	Leu	Leu	Phe	Leu	Val	Āla	Val	Āla	Thr	Arg	
315	1	_	_		5					10					15	_	
317	gtc	cag	tgt	gag	gtg	caa	ctg	gtg	gag	tct	qqq	qqa	qqc	ttg	qtc	caq	96
	Val																
319			-	20					25		.4	- 4		30			
	cct	ggc	ggg	tcc	cta	aga	qtc	tcc		qca	qtc	tct	qqa		acc	ttc	144
	Pro																
323		4	35			ر		40	. -				45			-	

VERIFICATION SUMMARY

DATE: 08/31/2005

PATENT APPLICATION: US/10/073,138A

TIME: 16:57:52

Input Set : A:\US10073138.txt
Output Set: N:\CRF4\08312005\J073138A.raw